



1770453 - R8 SDMS

# Frenchtown Mill Site Missoula County, Montana

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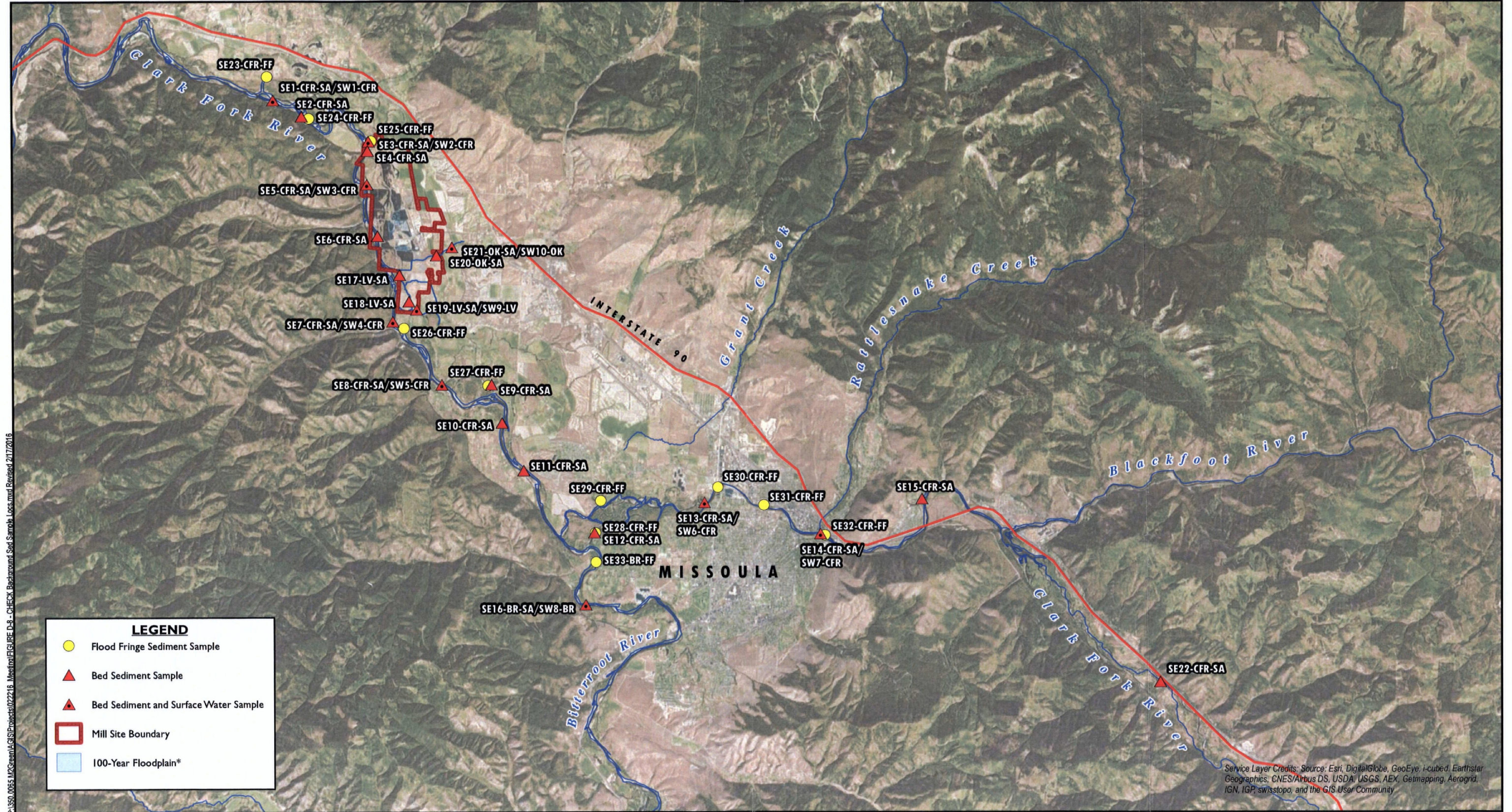
## REMEDIAL INVESTIGATION SUMMARY

# Overview

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- Administrative Order on Consent (AOC) signed in November 2015
- AOC requires implementation of a Remedial Investigation Workplan (RIWP)
- RIWP involves sampling in all three operable units at the site
  - OU 1 – Agricultural areas
  - OU 2 – Core industrial property
  - OU 3 - Wastewater treatment ponds, site-wide groundwater, Clark Fork River surface water and sediment
- Field work performed between November 16 and December 22, 2015 with EPA and MT DEQ oversight
- RI work included the installation of 15 groundwater monitoring wells and 37 soil boreholes
  - 213 soil samples
  - 49 groundwater samples
  - 50 sediment samples and 10 surface water samples





P:\950\_00851\92\920001\GIS\Projects\1022216\_Media\FIGURE D-8 - CHECK Background Sed Samples Loss.mxd Revised 2/17/2016

Aerial Photo Source: NAIP 2011



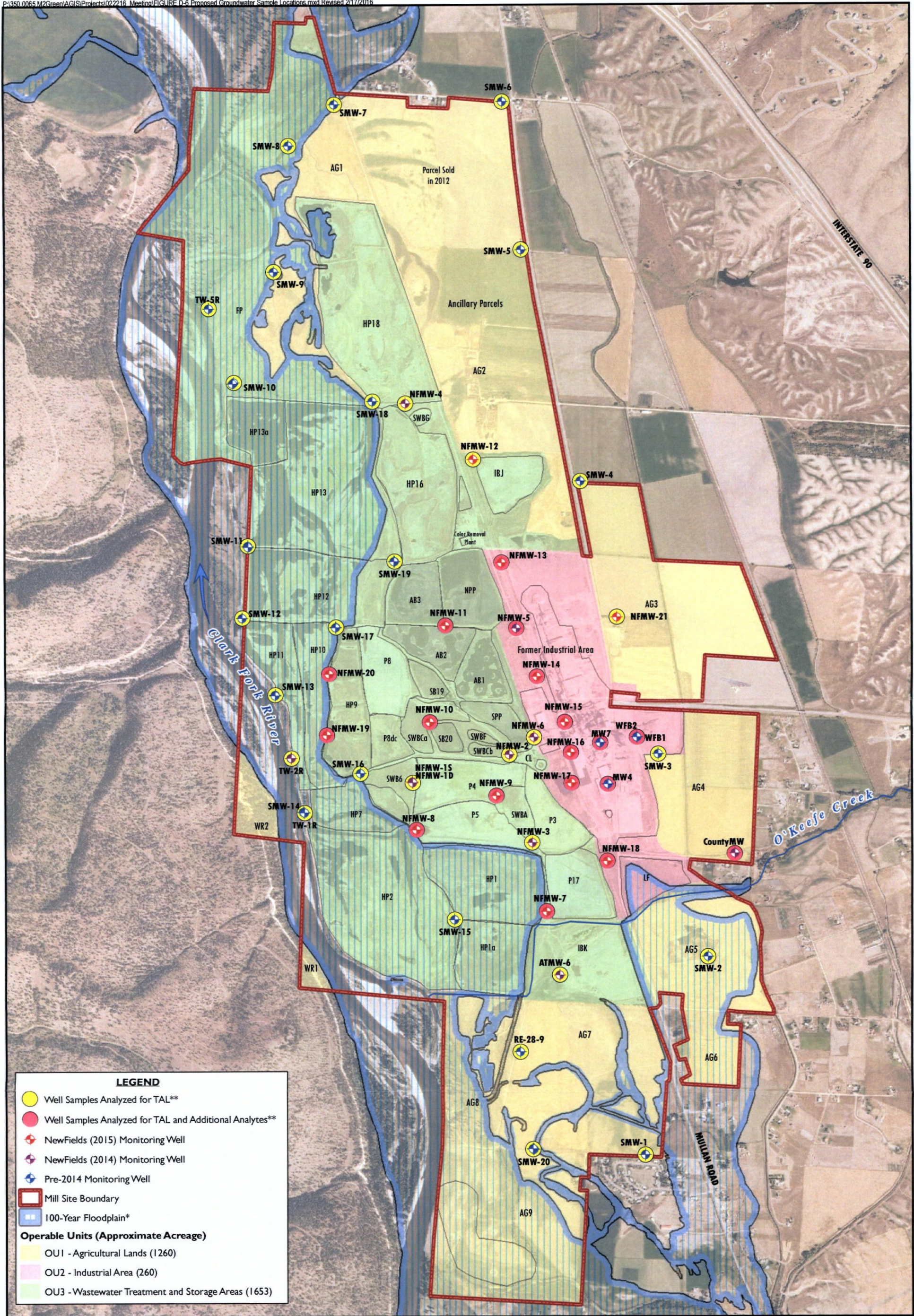
Background Sediment Sample Locations  
 Former Frenchtown Mill Site  
 Missoula County, Montana  
**FIGURE 3**



**Table 1: Sample Tabulation for 2015 Remedial Investigation  
Frenchtown Mill, Missoula County, Montana**

Number of Natural Samples Collected						Number of Analytes							
Sample Type	OUI	OU2	OU3	BG	Total	Dioxins	Metals	SVOCs/PAHs	VOCs	PCBs	TOC	Common Ions	Grain Size
Soils	78	78	57	-	213	145	196	136	39	46	---	---	---
Groundwater	10	9	30	-	49	49	49	18	18	12	49	49	NA
Sediments	---	---	17	33	50	50	50	9	---	9	50	---	50
Surface Water	---	---	---	10	10	10	10	6	---	6	10	10	NA
Total RI Samples					322	254	305	169	57	73	109	59	50
Total Previous Samples					146	146	143	65	65	143	---	---	---
Total Site Samples					468	400	448	234	122	216	109	59	50
<p><b>Notes:</b> --- not collected; NA - not applicable</p> <p>BG - background</p> <p>Metals - Al, As, Ba, Cd, Cr, Co, Cu, Fe, Hg, Pb, Mn, Ni, Ag, Ti, V, Zn</p> <p>Common Ions - sodium, potassium, calcium, magnesium, chloride, fluoride, sulfate, alkalinity</p> <p>SVOCs - semivolatile organic compounds</p> <p>VOCs - volatile organic compounds</p> <p>OU - operable unit</p> <p>PCBs - polychlorinated biphenyls</p> <p>PAHs - polynuclear aromatic hydrocarbons</p> <p>TOC - total organic carbon</p>													





**LEGEND**

- Well Samples Analyzed for TAL\*\*
- Well Samples Analyzed for TAL and Additional Analytes\*\*
- + NewFields (2015) Monitoring Well
- + NewFields (2014) Monitoring Well
- + Pre-2014 Monitoring Well
- Mill Site Boundary
- 100-Year Floodplain\*
- Operable Units (Approximate Acreage)**
- OU1 - Agricultural Lands (1260)
- OU2 - Industrial Area (260)
- OU3 - Wastewater Treatment and Storage Areas (1653)

Aerial Photo Source: NAIP 2011

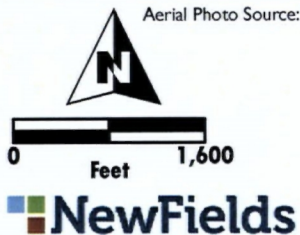
\*Floodplain Source:  
As defined by the Federal Emergency  
Management Agency (FEMA) 2013  
Digital Flood Insurance Rate Map  
(DFIRM). (NFIP 2013)

\*\*TAL analytes include metals, dioxins,  
and common ions. Wells highlighted pink  
include TAL analysis including VOCs, SVOCs.  
Samples within the area of OU2 will also include PCB analysis.

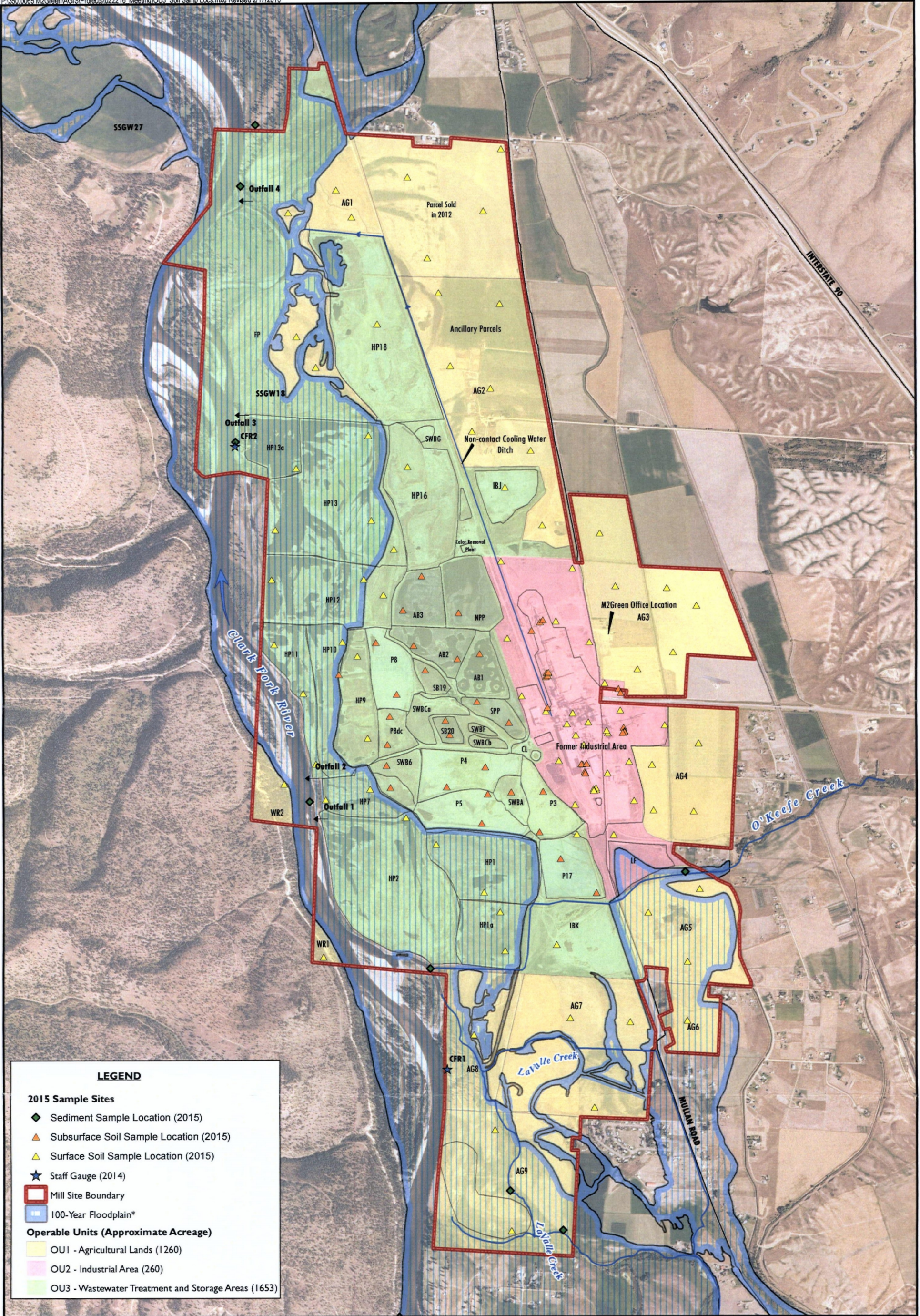
**Notes**

- AG - Agricultural Land
- AB - Aeration Stabilization Basin
- CR - Clarifier
- FP - Flood Plain
- HP - Holding or Storage Pond
- IB - Rapid Infiltration Basin
- ft bgs - Feet Below Ground Surface
- LF - Landfarm
- NPP - North Polishing Pond
- P - Settling Pond
- SB - Spoils Basin
- SPP - South Polishing Pond
- SWB - Solid Waste Basin
- TAL - Target analyte list
- WR - West of River

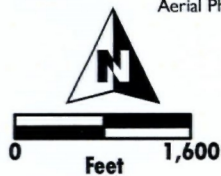
**Groundwater Sample Locations  
Former Frenchtown Mill Site  
Missoula County, Montana  
FIGURE 2**







Aerial Photo Source: NAIP 2011



NewFields

\*Floodplain Source:  
As defined by the Federal Emergency  
Management Agency (FEMA) 2013  
Digital Flood Insurance Rate Map  
(DFIRM). (NFIP 2013)

**Notes**

AG - Agricultural Land  
AB - Aeration Stabilization Basin  
CFR - Clark Fork River  
CL - Clarifier  
FP - Flood Plain  
HP - Holding or Storage Pond  
IB - Rapid Infiltration Basin  
ft bgs - Feet below ground surface  
IN - Industrial Area  
NPP - North Polishing Pond  
P - Settling Pond  
SB - Spoils Basin  
SPP - South Polishing Pond  
SWB - Solid Waste Basin  
WR - West of River

2015 Soil Sample Locations  
Former Frenchtown Mill Site  
Missoula County, Montana  
FIGURE 1